

## ABSTRACT

**Device and method for performing multiple view imaging by means of a plurality of video processing devices**

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In one aspect, the present invention provides an imaging system for multiple view imaging. Multiple view imaging comprises, but is not limited to, stereoscopic imaging. The imaging system for multiple view imaging comprises at least two video processing devices, each of the video processing devices being for displaying a video image on one or more display devices. Each video processing device receives at least a first sequence of image frames comprising at least second sequence of image frames and a third sequence of image frames, the at least second and third sequences being for generating at least first and second video images, respectively. Each video processing device outputs at least a fourth sequence of image frames, the fourth sequences being for generating at least one of the first or second video images, the fourth sequences of image frames from the first and second video processing devices being asynchronous with respect to each other. The imaging system is adapted to generate a linking signal for synchronising images displayed by the at least first and second video processing devices on the one or more display devices. In other aspects, the present invention provides a method for performing multiple view imaging by means of at least two video processing devices, and a controller for controlling the operation of at least two video processing devices in an imaging system for displaying multiple view images.

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+ Fig. 3